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## SEQUENCE LISTING

<110> Gaiger, Alexander  
Cheever, Martin A.

<120> COMPOSITIONS AND METHODS FOR WT1  
SPECIFIC IMMUNOTHERAPY

<130> 210121.465C2

<140> US 09/684,361

<141> 2000-10-06

<150> US 09/276,484

<151> 1999-03-25

<150> US 09/164,223

<151> 1998-09-30

<160> 326

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 1 5

<210> 288  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 288  
 Gln Ala Ser Ser Gly Gln Ala Arg Met  
 1 5

<210> 289  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 289  
 Gln Met Thr Ser Gln Leu Glu Cys Met  
 1 5

<210> 290  
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 <213> Mus musculus

<400> 290  
 Gln Gln Tyr Ser Val Pro Pro Pro Val  
 1 5

<210> 291  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 291  
 Gln Tyr Arg Ile His Thr His Gly Val  
 1 5

<210> 292  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 292  
 Gln Tyr Ser Val Pro Pro Pro Val Tyr  
 1 5

<210> 293  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 293  
 Arg Met Phe Pro Asn Ala Pro Tyr Leu  
 1 5

<210> 294  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 294  
 Arg Thr Pro Tyr Ser Ser Asp Asn Leu  
 1 5

<210> 295  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 295  
 Arg Val Ser Gly Val Ala Pro Thr Leu  
 1 5

<210> 296  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 296  
 Ser Cys Leu Glu Ser Gln Pro Thr Ile  
 1 5

<210> 297  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 297  
 Ser Cys Gln Lys Lys Phe Ala Arg Ser  
 1 5

<210> 298  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 298  
 Ser Asp Val Arg Asp Leu Asn Ala Leu  
 1 5

<210> 299  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 299  
 Ser Leu Gly Glu Gln Gln Tyr Ser Val  
 1 5

<210> 300  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 300  
 Thr Cys Gln Arg Lys Phe Ser Arg Ser  
 1 5

<210> 301  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 301  
 Thr Glu Gly Gln Ser Asn His Gly Ile  
 1 5

<210> 302  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 302  
 Thr Leu His Phe Ser Gly Gln Phe Thr  
 1 5

<210> 303  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 303  
 Thr Leu Val Arg Ser Ala Ser Glu Thr  
 1 5

<210> 304  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 304  
Val Leu Asp Phe Ala Pro Pro Gly Ala  
1 5

<210> 305  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 305  
Trp Asn Gln Met Asn Leu Gly Ala Thr  
1 5

<210> 306  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 306  
Tyr Phe Lys Leu Ser His Leu Gln Met  
1 5

<210> 307  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 307  
Tyr Gln Met Thr Ser Gln Leu Glu Cys  
1 5

<210> 308  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 308  
Tyr Ser Ser Asp Asn Leu Tyr Gln Met  
1 5

<210> 309  
<211> 6  
<212> PRT  
<213> Homo sapien

<400> 309  
Gly Ala Ala Gln Trp Ala  
1 5

<210> 310  
<211> 12  
<212> PRT  
<213> Homo sapien

<400> 310  
 Ala Ser Ala Tyr Gly Ser Leu Gly Gly Pro Ala Pro  
 1 5 10

<210> 311  
 <211> 15  
 <212> PRT  
 <213> Homo sapien

<400> 311  
 Ala Phe Thr Val His Phe Ser Gly Gln Phe Thr Gly Thr Ala Gly  
 1 5 10 15

<210> 312  
 <211> 5  
 <212> PRT  
 <213> Homo sapien

<400> 312  
 His Ala Ala Gln Phe  
 1 5

<210> 313  
 <211> 32  
 <212> PRT  
 <213> Homo sapien

<400> 313  
 Cys His Thr Pro Thr Asp Ser Cys Thr Gly Ser Gln Ala Leu Leu Leu  
 1 5 10 15  
 Arg Thr Pro Tyr Ser Ser Asp Asn Leu Tyr Gln Met Thr Ser Gln Leu  
 20 25 30

<210> 314  
 <211> 32  
 <212> PRT  
 <213> Homo sapien

<400> 314  
 Arg Ile His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg  
 1 5 10 15  
 Val Pro Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser  
 20 25 30

<210> 315  
 <211> 4  
 <212> PRT  
 <213> Homo sapien

<400> 315  
 Arg Tyr Phe Lys  
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<210> 316  
 <211> 14  
 <212> PRT  
 <213> Homo sapien

<400> 316  
 Glu Arg Arg Phe Ser Arg Ser Asp Gln Leu Lys Arg His Gln  
 1 5 10

<210> 317  
 <211> 22  
 <212> PRT  
 <213> Homo sapien

<400> 317  
 Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr His Thr Arg Thr  
 1 5 10 15  
 His Thr Gly Lys Thr Ser  
 20

<210> 318  
 <211> 21  
 <212> PRT  
 <213> Homo sapien

<400> 318  
 Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His Asn  
 1 5 10 15  
 Met His Gln Arg Asn  
 20

<210> 319  
 <211> 449  
 <212> PRT  
 <213> Homo sapien

<400> 319  
 Met Gly Ser Asp Val Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro  
 1 5 10 15  
 Ser Leu Gly Gly Gly Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Ala  
 20 25 30  
 Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr  
 35 40 45  
 Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro Pro  
 50 55 60  
 Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly  
 65 70 75 80  
 Ala Glu Pro His Glu Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe  
 85 90 95  
 Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe  
 100 105 110  
 Gly Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe  
 115 120 125  
 Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile

130	Arg	Asn	Gln	Gly	Tyr	Ser	Thr	Val	Thr	Phe	Asp	Gly	Thr	Pro	Ser	Tyr
145	Gly	His	Thr	Pro	Ser	His	His	Ala	Ala	Gln	Phe	Pro	Asn	His	Ser	Phe
					165					170						175
	Lys	His	Glu	Asp	Pro	Met	Gly	Gln	Gln	Gly	Ser	Leu	Gly	Glu	Gln	Gln
				180					185					190		
	Tyr	Ser	Val	Pro	Pro	Pro	Val	Tyr	Gly	Cys	His	Thr	Pro	Thr	Asp	Ser
			195					200					205			
	Cys	Thr	Gly	Ser	Gln	Ala	Leu	Leu	Leu	Arg	Thr	Pro	Tyr	Ser	Ser	Asp
		210					215					220				
	Asn	Leu	Tyr	Gln	Met	Thr	Ser	Gln	Leu	Glu	Cys	Met	Thr	Trp	Asn	Gln
225						230					235					240
	Met	Asn	Leu	Gly	Ala	Thr	Leu	Lys	Gly	Val	Ala	Ala	Gly	Ser	Ser	Ser
				245						250						255
	Ser	Val	Lys	Trp	Thr	Glu	Gly	Gln	Ser	Asn	His	Ser	Thr	Gly	Tyr	Glu
			260						265					270		
	Ser	Asp	Asn	His	Thr	Thr	Pro	Ile	Leu	Cys	Gly	Ala	Gln	Tyr	Arg	Ile
		275						280					285			
	His	Thr	His	Gly	Val	Phe	Arg	Gly	Ile	Gln	Asp	Val	Arg	Arg	Val	Pro
		290					295					300				
	Gly	Val	Ala	Pro	Thr	Leu	Val	Arg	Ser	Ala	Ser	Glu	Thr	Ser	Glu	Lys
305						310					315					320
	Arg	Pro	Phe	Met	Cys	Ala	Tyr	Pro	Gly	Cys	Asn	Lys	Arg	Tyr	Phe	Lys
				325						330					335	
	Leu	Ser	His	Leu	Gln	Met	His	Ser	Arg	Lys	His	Thr	Gly	Glu	Lys	Pro
			340						345					350		
	Tyr	Gln	Cys	Asp	Phe	Lys	Asp	Cys	Glu	Arg	Arg	Phe	Ser	Arg	Ser	Asp
		355						360					365			
	Gln	Leu	Lys	Arg	His	Gln	Arg	Arg	His	Thr	Gly	Val	Lys	Pro	Phe	Gln
		370					375					380				
	Cys	Lys	Thr	Cys	Gln	Arg	Lys	Phe	Ser	Arg	Ser	Asp	His	Leu	Lys	Thr
385						390					395					400
	His	Thr	Arg	Thr	His	Thr	Gly	Lys	Thr	Ser	Glu	Lys	Pro	Phe	Ser	Cys
				405						410					415	
	Arg	Trp	Pro	Ser	Cys	Gln	Lys	Lys	Phe	Ala	Arg	Ser	Asp	Glu	Leu	Val
			420						425					430		
	Arg	His	His	Asn	Met	His	Gln	Arg	Asn	Met	Thr	Lys	Leu	Gln	Leu	Ala
		435					440						445			

Leu

<210> 320  
 <211> 449  
 <212> PRT  
 <213> Mus musculus

<400> 320  
 Met Gly Ser Asp Val Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Ser  
 1 5 10 15  
 Ser Leu Gly Gly Gly Gly Gly Cys Gly Leu Pro Val Ser Gly Ala Ala  
 20 25 30  
 Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr  
 35 40 45

Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro  
 50 55 60  
 Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly  
 65 70 75 80  
 Ala Glu Pro His Glu Gln Cys Leu Ser Ala Phe Thr Leu His Phe  
 85 90 95  
 Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe  
 100 105 110  
 Gly Pro Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe  
 115 120 125  
 Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Thr Ile  
 130 135 140  
 Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Ala Pro Ser Tyr  
 145 150 155 160  
 Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe  
 165 170 175  
 Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln  
 180 185 190  
 Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser  
 195 200 205  
 Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp  
 210 215 220  
 Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln  
 225 230 235 240  
 Met Asn Leu Gly Ala Thr Leu Lys Gly Met Ala Ala Gly Ser Ser Ser  
 245 250 255  
 Ser Val Lys Trp Thr Glu Gly Gln Ser Asn His Gly Ile Gly Tyr Glu  
 260 265 270  
 Ser Asp Asn His Thr Ala Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile  
 275 280 285  
 His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Ser  
 290 295 300  
 Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys  
 305 310 315 320  
 Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys  
 325 330 335  
 Leu Ser His Leu Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro  
 340 345 350  
 Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Ser Arg Ser Asp  
 355 360 365  
 Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln  
 370 375 380  
 Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr  
 385 390 395 400  
 His Thr Arg Thr His Thr Gly Lys Thr Ser Glu Lys Pro Phe Ser Cys  
 405 410 415  
 Arg Trp His Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val  
 420 425 430  
 Arg His His Asn Met His Gln Arg Asn Met Thr Lys Leu His Val Ala  
 435 440 445  
 Leu

<211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 321  
 Pro Ser Gln Ala Ser Ser Gly Gln Ala  
 1 5

<210> 322  
 <211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 322  
 Ser Ser Gly Gln Ala Arg Met Phe Pro  
 1 5

<210> 323  
 <211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 323  
 Gln Ala Arg Met Phe Pro Asn Ala Pro  
 1 5

<210> 324  
 <211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 324  
 Met Phe Pro Asn Ala Pro Tyr Leu Pro  
 1 5

<210> 325  
 <211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 325  
 Pro Asn Ala Pro Tyr Leu Pro Ser Cys  
 1 5

<210> 326  
 <211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 326  
 Ala Pro Tyr Leu Pro Ser Cys Leu Glu  
 1 5